What is claimed is:

- 1. An optical scanner comprising:
- a scanner housing;
- a first self-contained optics assembly including a first housing within the scanner housing including a horizontal aperture, wherein the first optics assembly generates first scan lines for scanning a bottom side, and further scanning an operator side, a leading side, and a trailing side of an item; and
- a second self-contained optics assembly including a second housing within the scanner housing including a substantially vertical aperture, wherein the second optics assembly generates second scan lines for scanning a customer side, and further scanning the leading side, the trailing side, and a top side of the item.
- 2. The scanner of claim 1, wherein the first self-contained optics assembly includes a first mirrored polygon spinner, and the second self-contained optics assembly includes a second mirrored polygon spinner.
- 3. The scanner of claim 2, wherein the first mirrored polygon spinner is located towards a customer side of the first self-contained optics assembly, and the second mirrored polygon spinner is located towards a bottom side of the second self-contained optics assembly.

- 4. The scanner of claim 1, wherein the first self-contained optics assembly includes a first mirror basket, and the second self-contained optics assembly includes a second mirror basket.
- 5. The scanner of claim 1, wherein the first and second optics assemblies are substantially bilaterally symmetrical about a centerline.
- 6. The scanner of claim 1, wherein the first self-contained optics assembly includes a first laser, and the second self-contained optics assembly includes a second laser.
- 7. The scanner of claim 1, wherein the first and second optics assemblies generate a total of fifty-six scan lines.
- 8. The scanner of claim 7, wherein the first self-contained optics assembly generates twenty-four scan lines, and the second self-contained optics assembly generates thirty-two scan lines.
- 9. The scanner of claim 1, wherein the first self-contained optics assembly includes a first detector, and the second self-contained optics assembly includes a second detector.
- 10. The scanner of claim 9, further comprising control circuitry in the scanner housing for obtaining bar code information from first and second electrical signals from the first and second detectors.

- 11. The scanner of claim 1, further comprising control circuitry in the scanner housing for obtaining bar code information from a first signal from the first self-contained optics assembly and a second signal from the second self-contained optics assembly.
- 12. The scanner of claim 1, wherein the first self-contained optics assembly comprises:
 - a mirrored polygon spinner;
- a plurality of primary pattern mirrors for directing scanning light beams from the mirrored polygon spinner;

wherein the primary pattern mirrors direct first scanning light beams through the horizontal aperture to create a first group of the first scan lines; and

- a plurality of secondary pattern mirrors for reflecting second scanning light beams from the primary pattern mirrors through the horizontal aperture to create a second group of the first scan lines.
- 13. The scanner of claim 12, wherein the mirrored polygon spinner comprises facets of different angles which divide the first scan lines into pairs.
- 14. The scanner of claim 12, wherein the second group of the first scan lines scan the leading, trailing, customer, operator, and bottom sides of the item.
- 15. The scanner of claim 12, wherein the first group of the first scan lines scan the operator and bottom sides of the item.

- 16. The scanner of claim 12, wherein the first self-contained optics assembly comprises twelve primary pattern mirrors and six secondary pattern mirrors.
- 17. The scanner of claim 1, wherein the second self-contained optics assembly comprises:
 - a mirrored polygon spinner;
- a plurality of primary pattern mirrors for directing scanning light beams from the mirrored polygon spinner;

wherein the primary pattern mirrors direct first scanning light beams through the substantially vertical aperture to create a first group of the second scan lines; and

- a plurality of secondary pattern mirrors for reflecting second scanning light beams from the primary pattern mirrors through the substantially vertical aperture to create a second group of the second scan lines.
- 18. The scanner of claim 17, wherein the mirrored polygon spinner comprises facets of different angles which divide the second scan lines into pairs.
- 19. The scanner of claim 17, wherein the second group of the second scan lines scan the leading, trailing, customer, top, and bottom sides of the item.
- 20. The scanner of claim 17, wherein the first group of the second scan lines scan the top and customer sides of the item.

- 21. The scanner of claim 17, wherein the second self-contained optics assembly comprises sixteen primary pattern mirrors and six secondary pattern mirrors.
- 22. The scanner of claim 1, further comprising control circuitry in one of the first and second self-contained optics assemblies for obtaining bar code information from a first signal from the first self-contained optics assembly and a second signal from the second self-contained optics assembly.
- 23. The scanner of claim 1, wherein the first self-contained optics assembly substantially omnidirectionally scans the bottom side of the item.
- 24. The scanner of claim 1, wherein the second self-contained optics assembly substantially omnidirectionally scans the customer side of the item.
- 25. The scanner of claim 1, wherein at least one of the first and second self-contained optics assemblies additionally generate third scan lines for scanning an intermediate side of the item.
- 26. The scanner of claim 1, wherein the intermediate side comprises an intermediate bottom customer side.
- 27. The scanner of claim 1, wherein the first self-contained optics assembly substantially omnidirectionally scans the bottom side of the item, wherein the second self-contained optics assembly substantially omnidirectionally scans the customer side of the item, and wherein the first

and second self-contained optics assemblies are capable of scanning truncated bar code labels.

- 28. An optical scanner comprising:
- a scanner housing;
- a first optics assembly within the scanner housing including a horizontal aperture, wherein the first optics assembly generates first scan lines for scanning a bottom side, an operator side, a leading side, and a trailing side of an item; and
- a second optics assembly including a second housing within the scanner housing including a substantially vertical aperture, wherein the second optics assembly generates second scan lines for scanning a customer side, the leading side, the trailing side, and a top side of the item;

wherein at least one of the first and second optics assemblies additionally generates third scan lines for scanning an intermediate side of the item.

- 29. The scanner of claim 28, wherein the intermediate side comprises an intermediate bottom customer side.
- 30. The scanner of claim 28, wherein the first optics assembly substantially omnidirectionally scans the bottom side of the item.
- 31. The scanner of claim 28, wherein the second optics assembly substantially omnidirectionally scans the customer side of the item.

- 32. The scanner of claim 28, wherein the first self-contained optics assembly substantially omnidirectionally scans the bottom side of the item, wherein the second self-contained optics assembly substantially omnidirectionally scans the customer side of the item, and wherein the first and second self-contained optics assemblies are capable of scanning truncated bar code labels.
 - 33. An optical scanner comprising:
 - a scanner housing;
- a first optics assembly within the scanner housing including a horizontal aperture; and
- a second optics assembly including a second housing within the scanner housing including a substantially vertical aperture;

wherein the first and second optics assemblies are capable of scanning six sides of an item; and

wherein at least one of the first and second optics assemblies additionally generates third scan lines for scanning an intermediate side of the item.

- 34. The scanner of claim 33, wherein the first self-contained optics assembly substantially omnidirectionally scans a bottom side of the item, wherein the second self-contained optics assembly substantially omnidirectionally scans a customer side of the item, and wherein the first and second self-contained optics assemblies are capable of scanning truncated bar code labels.
- 35. The scanner of claim 33, wherein the intermediate side comprises a side between a customer side and a bottom side of the item.